

Appl. No. 10 731 757

Amdt. dated June 5, 2006

Reply to Office action mailed May 23, 2006

# AMENDMENTS TO THE CLAIMS:

Claims 1-3, 6-13, and 16-21, and 24-26 are pending and under Final rejection. If entered, this listing of claims will replace all prior versions, and listings, of claims in the application:

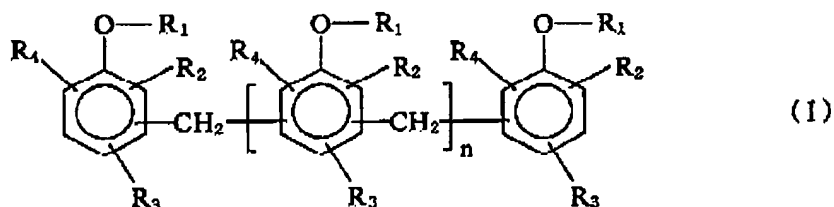
## LISTING OF CLAIMS:

Claim 1- 7 (canceled).

Claim 8 (currently amended). A molded article prepared by the flame retardant thermoplastic resin composition of claim 4 19.

Claim 9 (Original). A flame retardant thermoplastic resin composition comprising:

- (A) 100 parts by weight of a thermoplastic resin as a base resin;
- (B) about 0.1~100 parts by weight of polyphenylene ether;
- (C) about 0.1~100 parts by weight of a phenol resin derivative represented by the following Formula (I);



where R<sub>1</sub> is alkyl of C<sub>1-34</sub>; aryl; alkyl-substituted aryl; O-, N-, P- or S-containing alkyl; O-, N-, P- or S-containing aryl; or O-, N-, P- or S-containing alkyl-substituted aryl; R<sub>2</sub>, R<sub>3</sub>, and R<sub>4</sub> are hydrogen, alkyl of C<sub>1-34</sub>; aryl; alkyl-substituted aryl; O-, N-, P- or S-containing alkyl; O-

Appl. No. 10 731 757

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N-, P- or S-containing aryl; or O-, N-, P- or S-containing alkyl-substituted aryl; and n is an integer of 1 to 10,000; and

(D) about 0.1~50 parts by weight of a phosphoric acid ester morpholide compound.

Claim 10 (original). The flame retardant thermoplastic resin composition as defined in claim 9, further comprising up to about 5.0 parts by weight of an anti-dripping agent based on 100 parts by weight of the base resin.

Claim 11 (original). The flame retardant thermoplastic resin composition as defined in claim 10, wherein said anti-dripping agent is a fluoride resin.

Claim 12 (original). The flame retardant thermoplastic resin composition as defined in claim 9, wherein said base resin is selected from the group consisting of polyacrylonitrile-butadiene-styrene copolymer (ABS resin), rubber modified polystyrene resin (HIPS), acrylonitrile-styrene-acrylate copolymer (ASA resin), methacrylate-butadiene-styrene copolymer (MBS resin), acrylonitrile-ethacrylate-styrene copolymer (AES resin), polycarbonate (PC), polyethylene (PE), polypropylene (PP), polyethylene terephthalate (PET), polybutylene terephthalate (PBT), polyvinyl chloride (PVC), polymethyl methacrylate (PMMA), polyamide (PA), and a copolymer thereof and an alloy thereof.

Claim 13 (Original). The flame retardant thermoplastic resin composition as defined in claim 9, wherein said phenol resin derivative is selected from the group consisting of o-cresol novolak epoxy resin, phenol epoxy resin and a mixture thereof.

Claim 14 and 15 (canceled)

Appl. No. 10 731 757

Amdt. dated June 5, 2006

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Claim 16 (previously presented). The flame retardant thermoplastic resin composition as defined in claim 10, further comprising an additive comprising an impact modifier, a heat stabilizer, an oxidation inhibitor, a light stabilizer, talc, silica, mica, glass fiber, an organic or inorganic pigment and/or dye up to about 50 parts by weight as per 100 parts by weight of the base resin.

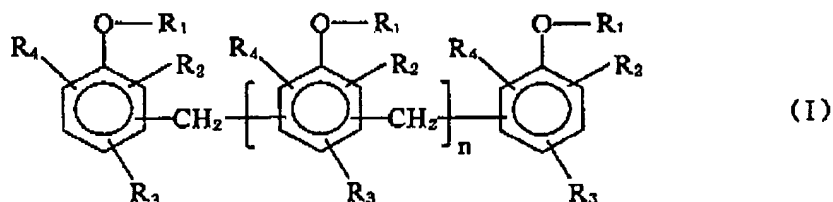
Claim 17 (original). A molded article prepared by the flame retardant thermoplastic resin composition of claim 9.

Claim 18 (Currently amended). A molded article prepared by the flame retardant thermoplastic resin composition of claim ~~14~~ 22.

Claim 19 (Currently amended). A flame retardant thermoplastic resin composition comprising:

(A) 100 parts by weight of a thermoplastic resin as a base resin;

(B) about 0.1~100 parts by weight of a phenol derivative represented by the following Formula:



where R<sub>1</sub> is alkyl of C<sub>1-34</sub>; aryl; alkyl-substituted aryl; O-, N-, P- or S-containing alkyl; O-, N-, P- or S-containing aryl; or O-, N-, P- or S-containing alkyl-substituted aryl; R<sub>2</sub>, R<sub>3</sub>, and R<sub>4</sub> are hydrogen, alkyl of C<sub>1-34</sub>; aryl; alkyl-substituted aryl; O-, N-, P- or S-containing

Appl. No. 10 731 757

Amdt. dated June 5, 2006

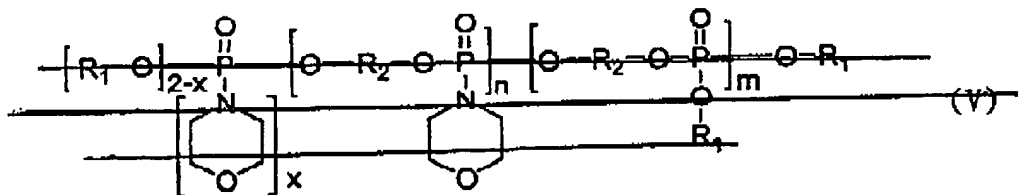
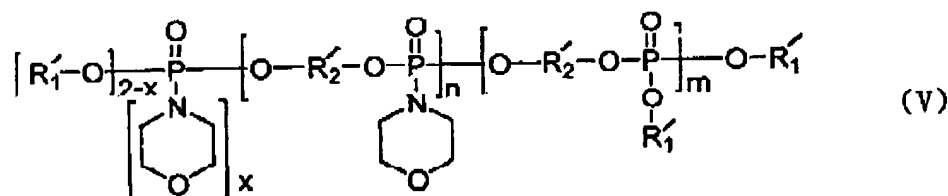
Reply to Office action mailed May 23, 2006

alkyl; O-, N-, P- or S-containing aryl; or O-, N-, P- or S-containing alkyl-substituted aryl;

and n is an integer of 1 to 10,000; and

(C) about 1~50 parts by weight of a phosphoric acid ester morpholide compound

~~The flame retardant thermoplastic resin composition as defined in claim 1, wherein said phosphoric acid ester morpholide compound is~~ represented by the following Formula:



where  $R'_1$  is a  $C_{6-20}$  aryl group or an alkyl-substituted  $C_{6-20}$  aryl group,  $R'_2$  is a  $C_{6-30}$  aryl group or an alkyl-substituted  $C_{6-30}$  aryl group, x is 1 or 2, and n and m are number average degree of polymerization and  $n+m$  is 0 to 5.

Claim 20 (previously presented). The flame retardant thermoplastic resin composition as defined in claim 19 wherein x is 1.

Claim 21 (previously presented). The flame retardant thermoplastic resin composition as defined in claim 19, where  $R'_1$  is phenyl group or an alkyl-substituted phenyl group, where the alkyl is methyl, ethyl, isopropyl, t-butyl, isobutyl or t-amyl and  $R'_2$  is a  $C_6$ .

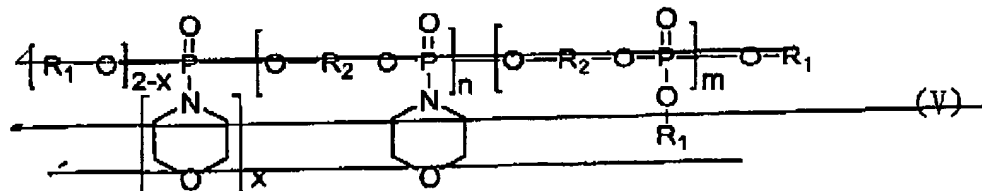
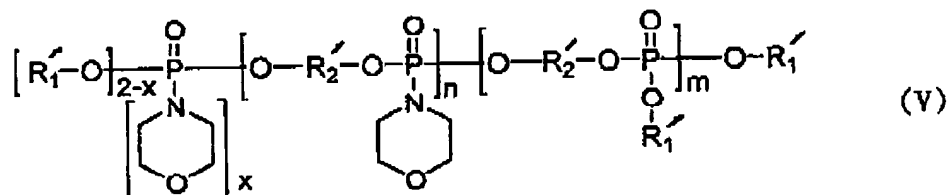
Appl. No. 10 731 757

Amdt. dated June 5, 2006

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aryl group or an alkyl-substituted C<sub>6-30</sub> aryl group which is a derivative from resorcinol, hydroquinone, or bisphenol-A.

Claim 22 ~~24~~ (Currently amended). The flame retardant thermoplastic resin composition as defined in claim 9, wherein said phosphoric acid ester morpholide compound is represented by the following Formula (V):



where R'<sub>1</sub> is a C<sub>6-20</sub> aryl group or an alkyl-substituted C<sub>6-20</sub> aryl group, R'<sub>2</sub> is a C<sub>6-30</sub> aryl group or an alkyl-substituted C<sub>6-30</sub> aryl group, x is 1 or 2, and n and m are number average degree of polymerization and n+m is 0 to 5.

Claim 23 ~~25~~ (Currently amended). The flame retardant thermoplastic resin composition as defined in claim 22 ~~24~~ wherein x is 1.

Claim 24 ~~26~~ (Currently amended). The flame retardant thermoplastic resin composition as defined in claim 22 ~~24~~, where R'<sub>1</sub> is phenyl group or an alkyl-substituted

Appl. No. 10 731 757

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phenyl group, where the alkyl is methyl, ethyl, isopropyl, t-butyl, isoamyl or t-amyl and R'<sub>2</sub> is a C<sub>6-30</sub> aryl group or an alkyl-substituted C<sub>6-30</sub> aryl group which is a derivative from resorcinol, hydroquinone, or bisphenol-A.